

NORTHWEST BAY CO. PTY.LTD

A.C.N. 009 513 697

E.L. 36/89 LUNE RIVER - SOUTHERN TASMANIA

YEAR 1 , RELINQUISHMENT REPORT

PERIOD COVERED - 16/3/1990 to 16/3/1991

LICENSEE - NORTHWEST BAY CO. PTY.LTD.  
R.M.B. 341, KINGSTON, TAS. 7050

REPORT - M.C.FORSTER  
29/3/1991

91-3248

<b>MINES</b>	
File Ref.	E.L.36   89
- 4 APR 1991	
Doc. Ref.	
Action Officer	Initials
Refer to	
Cover sheet.	
29.3.91	
Resubmit to	Date

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TENEMENT INFORMATION

E.L.36/89 is located at Lune River in Southern Tasmania with access via North Lune Road and South Lune Road and is in State Forest. The E.L. was granted on 16/3/1990.

The area of the E.L. covers 6 s.k.m. but drilling is restricted to areas marked 'A' and 'B' on plan 782 registered in the DMMR and attached to the licence document. Drill holes to be terminated at the water table.

Summary of Previous Exploration

Some exploration for high grade quartzite was undertaken by M.C.Forster of Louisa Mining Corporation N.L. within S.P.L.91 in 1971, (report 9.6.1971) T.G.Summons 1981/29 Mines Dept., & Report. V.M.Threader & C.A.Bacon 1987/35 Silica deposits in the Hastings Caves - Lune River area. Department of Mines. A 1000 tonne sample of quartzite from a site just south of the North Lune Road within M.L.86M/88 was mined in 1990 and transported to B.H.P.'s Temco plant at Bell Bay for trial smelting. Production samples indicated high chemical grade from this deposit, however reserves at this site were too small for long term reserves. The programme for E.L.36/89 aimed at locating further reserves of this grade.

Previous work had located quartzite in 'Area 'A' and 'B' (plan 782) and it was thought that a few 10-20m drill holes would test the grades and hardness of these rocks. 'Prospecting Claims' were proposed to cover the area for the one or two days which would be required to test the deposits, however this proposal was rejected by DMMR. (The cost and time involved in obtaining an E.L. for such a low value mineral, is high.)

Exploration Philosophy

Siliceous sedimentary rocks are inferred to underlie Ordovician age 'Gordon Limestone' in the Lune River area, and one high grade quartzite bed may be present. The grade of this bed may depend on leaching factors, and the extent of re-silicification. High grade surface samples often turn to sand at shallow depth.

The aim of the work is to locate quartzite which has been partly leached but still strong enough for the smelting process.

#### SUMMARY OF WORKS

E.L.36/89 was granted on 16/3/90 and scout drilling was undertaken shortly afterwards.

A track mounted, single unit, hydrolic percussion drilling unit (Benders) was walked to Area 'A' from the North Lune Road.

A sharp quartzite ridge, about 30m high occurs in this area but does not show up on the 1:25,000 map sheet.

Ten holes were put down at various locations along this ridge, both sides and from the top. In all cases the hard surface case of quartzite was less than 2m thick, below which was white sand or very soft weathered rock. ~~Some~~ samples were taken. Most holes were taken to 10-12m depth.

The rig was then moved to area 'B' via the South Lune Road and a further 12 holes were put down on the N-S trending ridge. Here there is little outcrop but previous work (1971) with a bulldozer uncovered high grade but soft quartzite.

However, the drilling again found only white sand or very soft rock to depths of up to 12m. No samples were taken.

The field work to test for the high grade quartzite, by drilling, required only two days work. Would not a Prospecting Claim with DMMR regulation be a better way?

#### CONCLUSION

The drilling work in areas 'A' & 'B' gave no indication that hard quartzite was present in these areas. No other quartzite deposits have been found within the E.L. other than within M.L. 86M/88 and 58M/80. A small tonnage of high grade cap rock is present in area 'A'.

Rehabilitation of work areas was not necessary as no damage was done to the environment with the tracked drilling rig.

0004

P.S.I.  
Electrona  
Laboratory

Laboratory Number: 900103 cont:  
Sample Delivery Date:  
Analysis Issued Date: 2-5-90  
Required by:

Appendix ①

SAMPLE  
DETAILS

DH 4

E.L. 36/89

EX. M.F. Hastings Ridge, Area "A"

SAMPLES

ANALYSIS

SAMPLES	ANALYSIS				ANALYSIS				
	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	T.O <sub>2</sub>	CaO	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	T.O <sub>2</sub>	CaO	
DH 4 1839 4-5-6	0.062	0.018	0.14	0.009	DH 4 1845 13-5-15	0.25	0.076	0.15	0.01
DH 4 1840 6-7-5	0.072	0.027	0.17	0.009					
DH 4 1841 7-5-9	0.086	0.027	0.15	0.009					
DH 4 1842 9-10-5	0.091	0.034	0.17	0.01					
DH 4 1843 10-5-12	0.21	0.054	0.10 <sup>2</sup>	0.01					
DH 4 1844 12-13-5	0.16	0.054	0.12	0.01					

P.S.I.  
Electrona  
Laboratory

Laboratory Number: 900103  
Sample Delivery Date:  
Analysis Issued Date: 2-5-90

SAMPLE  
DETAILS

D.H 4 & 7

Hastings Ridge, EL 36/89  
Area A

QUARTZ EX. M.F.

SAMPLES

ANALYSIS

SAMPLES	ANALYSIS				ANALYSIS			
	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	T.O <sub>2</sub>	CaO	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	T.O <sub>2</sub>	CaO
DH 7 1833 1-1-1	0.07							
DH 7 1831 6-9	0.07							
DH 7 1835 0-12	0.17							
DH 4 1836 0-1-5	0.071	0.027	0.14	0.005				
DH 4 1837 5-30	0.022	0.20	0.008					
DH 4 1838 0-4-5	0.071	0.022	0.16	0.008				

(0.10)

LABORATORY REPORT:

D. HASSELL - Temco

378006

Appendix (2)

DATE:

4.1.8.89

WORK NO:

MATERIAL:

Q.T.Z. NORTH LUNE DEPOSIT  
SOUTH LUNE DEPOSIT (Area "B")

SAMPLE	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	Cr <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	MnO	P <sub>2</sub> O <sub>5</sub>				
NLP 1	98.2	0.38	0.4	0.06	0.12	0.03	0.1	<0.1	0.1	0.01	<0.01				
NLP 2	98.1	0.36	0.4	0.06	0.13	0.01	0.1	<0.1	0.1	0.01	<0.01				
NLT 1	98.2	0.22	0.4	0.06	0.09	0.06	0.1	<0.1	<0.1	0.01	<0.01				
2	98.3	0.14	0.4	0.06	0.02	<0.01	0.1	<0.1	<0.1	<0.01	<0.01				
3	96.2	0.90	1.2	0.11	0.11	0.12	0.2	<0.1	0.2	0.10	<0.01				
A ↑	99.2	0.10	0.3	0.06	0.05	<0.01	0.1	0.1	<0.1	0.07	<0.01				
B	99.1	0.09	0.3	0.04	0.02	<0.01	0.1	<0.1	<0.1	0.03	<0.01				
C	99.3	0.11	0.2	0.02	0.03	<0.01	0.1	<0.1	<0.1	0.20	<0.01				
D	99.6	0.07	0.2	0.06	0.03	<0.01	0.1	<0.1	<0.1	0.02	<0.01				
E	99.4	0.07	0.3	0.04	0.06	<0.01	0.1	<0.1	<0.1	0.01	<0.01				
F ↓	98.8	0.09	0.1	0.02	0.03	<0.01	0.1	<0.1	<0.1	0.01	<0.01				

COMMENTS:

N.L.P. NORTH LUNE PRODUCTION INCREMENT (APPROX 40kg)

N.L.T. NORTH LUNE TYPE SAMPLE (HAND SPECIMEN)

A → F SOUTH LUNE SURFACE SAMPLES ACROSS 6 → 8m OF

WESTERN SEQUENCE OUTCROP (HAND SPECIMEN)

ANALYST.

CHEMIST.

NLT (1) SAMPLE FROM PRODUCTION FACE APPROX -2 METRES  
Medium grained, well cemented, white quartzite  
with iron staining on joint surfaces

NLT (2) SAMPLE FROM PRODUCTION FACE APPROX -3 METRES  
Fine grained, well cemented, white quartzite

NLT (3) SAMPLE FROM PRODUCTION FACE APPROX -5 METRES  
Medium grained, dark gray, well cemented quartzite  
minor pyrite visible.

THESE SAMPLES NOT FROM SAME BED.

